ANNUAL INDEX

PUBLIC WORKS

Volume 89

January-December

1958

THE MOST USEFUL ENGINEERING MAGAZINE
FOR CITIES, COUNTIES AND STATES

This Volume of PUBLIC WORKS is available on microfilm through University Microfilms, 313 North First St., Ann Arbor, Michigan.

Published by Public Works Magazine, 200 South Broad Street, Ridgewood, N. J.

PUBLIC WORKS INDEX

January-December 1958
Volume 89

HIGHWAYS AND STREETS

Bituminous Pavements

	Month and page
Design of Asphalt Paving Mixtures	Jan.—93
Seal Treatments on Bituminous Concrete Pavements	Feb.—95
Machine Placement of Durable Asphaltic Concrete Curbs	Apr.—104
What's New in Machinery and Construction Methods for Bituminous Resurfacing	June—134
Sealing Bituminous Concrete Pavements	July—86
Granulated and Air-Cooled Slag for Road Construction	Dec.—82

Bridges, Culverts, Drainage and Tunnels

	Month and page
Experience Gained on 65 Prestressed Concrete Bridges	Mar.—94
The Problems of Small Bridge Design	Apr.—117
Testing a Bearing Pile	May—110
Don't Ignore Soils Studies	May—112
Unique Washer Cuts Tunnel Maintenance Costs	June—104
Aluminum Usage in Bridges	Aug.—108
Fluorescent Strip Lighting for Tunnels at Long Beach Airports	Aug.—120
Fairchild Aluminum Bridge Features Shop-Assembled Components	Oct.—138
Maintenance of County Roads	Dec.—73
Prototype Aluminum Bridge	Dec.—152

Concrete Pavements

	Month and page
Field Sampling of Concrete	Jan.—77
Design and Construction of Concrete Resurfacing	Apr.—128
Field Inspection of Concrete	June—92

Construction Methods

	Month and page
Field Sampling of Concrete	Jan.—77
Designing Bases for Roads and Streets	Jan.—97
Soils Classification, Exploration and Testing	Jan.—112
Don't Ignore Soils Studies	May—112
Better Compaction on County Road Work	June—112
Moving Dirt in Michigan	Aug.—72
Granulated and Air-Cooled Slag for Road Construction	Dec.—82
Inspection and Control of Highway Construction	Dec.—166

Design

	Month and page
Design of Asphalt Paving Mixtures	Jan.—93
Designing Bases for Roads and Streets	Jan.—97
Evaluation of Urban Intersection Design	Feb.—100
Experience Gained on 65 Prestressed Concrete Bridges	Mar.—94
Design and Construction of Concrete Resurfacing	Apr.—128
Sealing Bituminous Concrete Pavements	July—86
Granulated and Air-Cooled Slag for Road Construction	Dec.—82

Equipment

	Month and page
Soils Classification, Exploration and Testing	Jan.—112
Machine Placement of Durable Asphaltic Concrete Curbs	Apr.—104
Most Useful Equipment for County Highway Departments	May—125
What's New in Machinery and Construction Methods for Bituminous Resurfacing	June—134
Leasing of Motor Equipment	July—94
Considerations in the Purchase of Street Sweepers by Cities	Sept.—127
Portable Asphalt Plant Speeds Street Patching	Sept.—214
Highway Equipment Cost Accounting Can Be Easy	Oct.—121
How Cities Cut Curb Costs	Nov.—105
Fleet Maintenance Records Help City Cut Costs	Nov.—106
New Building Is Called "Largest Testing Machine"	Nov.—125

Materials

	Month and page
Designing Bases for Roads and Streets	Jan.—97
Soils Classification, Exploration and Testing	Jan.—112
A Way to See Into the Earth	Apr.—121
Don't Ignore Soils Studies	May—112
Field Inspection of Concrete	June—92
How Cities Cut Curb Costs	Nov.—105
Granulated and Air-Cooled Slag for Road Construction	Dec.—82

Parking

	Month and page
Can a City Stay Out of the Parking Lot Business?	Feb.—104
Women Parking Officers Help Public Relations	Mar.—121
Municipal Parking Financed by Special Assessment District	Apr.—135
Solving Our Parking Problems	May—100
Parking Requirements for Proposed State Office Buildings	June—180
Our Downtown Parking Garage Handled 142,313 Cars in Nine Months	Sept.—110
Records Assist Parking Meter Maintenance	Oct.—124
New Garage Parks Cars Automatically	Dec.—152

Pavement Modernization

	Month and page
Seal Treatments on Bituminous Concrete Pavements	Feb.—95
County Road Stabilization with Calcium Chloride	Mar.—120
Design and Construction of Concrete Resurfacing	Apr.—128
Stabilization of Sand with Asphaltic Materials	Sept.—125
Low Cost Street Construction with Lime Stabilization	Oct.—113
Salt-Soil Stabilization on Township Roads	Oct.—130

Finance, Legal and Planning

	Month and page
Expressway Completion to Bring Economic Growth	Feb.—75
Municipal Parking Financed by Special Assessment District	Apr.—135
Federal Aid for Streets and Urban Roads	June—174
County Gets More Miles from Its Highway Maintenance Dollar	July—99
Highway Maintenance for Wayne County, Mich.	Aug.—78
Basic Requirements for Subdivision Approval	Sept.—97
Centralized Machine Accounting Furnishes Important Operating Controls	Sept.—132
Special Assessments for Repaving Streets	Oct.—86
Low Cost Street Construction with Lime Stabilization	Oct.—113
Highway Equipment Cost Accounting Can Be Easy	Oct.—121
City Establishes Five-Year Street Maintenance Program	Nov.—75
Should I Consider an Electronic Computer?	Nov.—102
Fleet Maintenance Records Help City Cut Costs	Nov.—106
The Town Superintendent and Subdivision Control	Nov.—108
The Expanded Highway Program—A County Point of View	Dec.—142
Inspection and Control of Highway Construction	Dec.—166

Roadside Improvement

	Month and page
Plantings for Highway Roadsides	June—119
Mowing the Nation's Biggest Lawn	Aug.—112
Shoulder Maintenance Practices	Oct.—102
Removal, Trimming and Planting of Roadside Trees	Oct.—126
Portable Dump System Lowers Cost of Highway Roadside Cleanup	Nov.—54
Maintenance of Roadside Plantings on Connecticut Turnpike	Nov.—83
Soil Erosion Problems in a Coastal County	Nov.—93
Maintenance of County Roads	Dec.—73

Safety

	Month and page
Pavement Striping Benefits and Practices	Jan.—90
Right-of-Way Fencing Along a Turnpike	Sept.—108
Safety Lighting Installed at Grade Separation and Interchange	Nov.—85
Pedestrian Overpass Reduces Traffic Danger	Nov.—145
Signs for Safety	Dec.—79
Minimizing Traffic Interference Caused by Utility Work in Streets	Dec.—86
Aluminum Guard Rail Withstands Tests	Dec.—132

Snow and Ice Control

	Month and page
Snow and Ice Control with Salt	Feb.—155
Liquid Chemicals for Dust and Ice Control	May—91
Highway Maintenance for Wayne County, Mich.	Aug.—78
Winter Maintenance on Maryland Highways	Aug.—93
Getting Ready for Winter Weather	Aug.—96
Turnpikes Are Expected to Be Snow Free	Aug.—100

Stabilized Surfaces and Bases

	Month and page
The Use of Asphalt Emulsion for Stabilization	Jan.—84
County Road Stabilization with Calcium Chloride	Mar.—120
Don't Ignore Soils Studies	May—112
Gravel Stabilization with Tar	May—174
Stabilization of Sand with Asphaltic Materials	Sept.—125
Low Cost Street Construction with Lime Stabilization	Oct.—113
Salt-Soil Stabilization on Township Roads	Oct.—130

Street Cleaning

	Month and page
Refuse and Street Cleaning Costs	Jan.—48
New Sweeper Expands Baltimore County Services	Mar.—123
Vacuum Street Cleaner Does Speedy Job	June—115
Cost Data on Public Works Activities	Aug.—72
Street Sweeping Operations on County Roads	Sept.—109
Considerations in the Purchase of Street Sweepers by Cities	Sept.—127

Street and Area Lighting

	Month and page
New Lamp Cuts Street Lighting Costs	Jan.—104
Expressway Completion to Bring Economic Growth	Feb.—75
Plastic Panels Protect Street Lights	Feb.—112
A New Method of Financing Ornamental Street Lighting	Mar.—99
Bright Lights for Atlanta	Apr.—114
Something Had to Be Done About Street Lighting	May—99
Fluorescent Strip Lighting for Tunnels at Long Beach Airports	Aug.—120
Safety Lighting Installed at Grade Separation and Interchange	Nov.—85
Standby Power for Toll Plazas	Nov.—88
Property Owners Want an Adequate Lighting System	Nov.—89
The Town Superintendent and Subdivision Control	Nov.—108
Fluorescents Replace Incandescents	Dec.—78
Street Lighting Modernization	Dec.—80
Street Lighting Controlled by Radio	Dec.—164

Surface Maintenance

	Month and page
Seal Treatments on Bituminous Concrete Pavements	Feb.—95
Liquid Chemicals for Dust and Ice Control	May—91
What's New in Machinery and Construction Methods for Bituminous Resurfacing	June—134
Sealing Bituminous Concrete Pavements	July—86
County Gets More Miles from Its Highway Maintenance Dollar	July—99
Highway Maintenance for Wayne County, Mich.	Aug.—78
Portable Asphalt Plant Speeds Street Patching	Sept.—214
Special Assessments for Repaving Streets	Oct.—86
City Establishes Five-Year Street Maintenance Program	Nov.—75
Maintenance of County Roads	Dec.—73

Surveying Methods

	Month and page
Engineering Man-Hours Saved with Electronic Computers	Jan.—108
Establishing Boundaries of Roads Centuries Old	Feb.—87
The County Surveyor: Then and Now	Mar.—90
Aerial Photography Is a Low Cost Aid for Tax Equalization	Mar.—106
Electronic Devices for the Civil Engineering Field	Mar.—113
Computer Applications for a Small Consulting Firm	July—67
New Developments in Photogrammetry	Oct.—194
Should I Consider an Electronic Computer	Nov.—102

Month and page

Traffic Control

Pavement Striping Benefits and Practices — Jan.—90
Signal System Designed for Downtown Traffic — Feb.—78
Pavement Markings Improve Traffic Flow — July—78
Cost Data on Public Works Activities — Aug.—72
Highway Maintenance for Wayne County, Mich. — Aug.—78
Erection and Maintenance of Guard Rail — Sept.—102
San Francisco Puts "Personality" Into Traffic Signals — Sept.—129
Signs for Safety — Dec.—79
Minimizing Traffic Interference Caused by Utility Work in Streets — Dec.—86

Weed and Brush Control

Mowing the Nation's Biggest Lawn — Aug.—112
Maintenance of Roadside Plantings on Connecticut Turnpike — Nov.—83
Maintenance of County Roads — Dec.—73

Two-Way Radios

The County Surveyor: Then and Now — Mar.—90
Two-Way Radio Saves Time and Money for the Public Works Department — May—105
Getting Ready for Winter Weather — Aug.—96
Turnpikes Are Expected to Be Snow Free — Aug.—100
New F. C. C. Ruling Eases Municipal Radio Problems — Aug.—186

Curb and Gutter Repair

Air Placed Concrete Trims Curb Repair Costs — May—136
Curb, Gutter and Sidewalk Repair Program — Sept.—106
How Cities Cut Curb Costs — Nov.—105

Highway and Airport Digests

Jan.—130; Feb.—150; Mar.—154; Apr.—170; May—150; June—138; July—122; Aug.—136; Sept.—164; Oct.—156; Nov.—126; Dec.—132

REFUSE COLLECTION AND DISPOSAL

Collection Methods

Refuse Collection by Packer-Type Vehicles — Jan.—106
Refuse Collection Methods and Equipment — Mar.—92
We Reduce Costs and Improve Refuse Collection with Larger Bodies — Mar.—118
Refuse Collection in New Bedford — Mar.—169
Sanitation Service Costs — Apr.—103
New Equipment Cuts Refuse Collection Costs for Maple Heights — Apr.—148
Refuse Collection and Disposal in Albuquerque — June—110
Refuse Collection Operations in Winston-Salem — June—148
"Dinosaur" Refuse Containers Handle 40-Cubic Yard Loads — Sept.—150

Costs

Reducing the Cost of Refuse Collection — Jan.—46
Refuse and Street Cleaning Costs — Jan.—48
Refuse Collection by Packer-Type Vehicles — Jan.—106
We Reduce Cost and Improve Refuse Collection with Larger Bodies — Mar.—118
Sanitation Service Costs — Apr.—103
New Equipment Cuts Refuse Collection Costs for Maple Heights — Apr.—148
Cost Data on Public Works Activities — Aug.—72

Incineration

New Incinerator Designed to Reduce Fly Ash Emission — Apr.—97
Incinerator Near Residential Area Is Nuisance Free — June—90
Municipal Incinerator Trends — Sept.—112

Sanitary Fill

Light Equipment for Small Town Sanitary Landfill — Feb.—89
Effect of Earth Cover on Fly Emergence from Sanitary Landfills — Feb.—91
Sanitary Landfill Projects Serve Both City and Contractor — Aug.—111
Operation of Sanitary Landfills — Sept.—115
County Develops Comprehensive Refuse Disposal Plan — Nov.—90

Other Disposal Methods

Making Columbus Garbage Free — Feb.—107
Control of Rodents and Insects on Dumps: Rodent Control — July—90
Applications of Insecticides at Dumps — July—92

Month and page

Refuse Digests

Jan.—122; Feb.—128; Mar.—144; Apr.—180; May—160; June—150; July—130; Aug.—156; Sept.—154; Oct.—142; Nov.—138; Dec.—144

SEWERAGE AND SEWAGE TREATMENT

Finance, Legal and Planning

City-County Control of Subdivision Sewage Disposal — Jan.—102
Sewerage for the "Venice of America" — Feb.—98
Sewer Trenching in the Horse-and-Buggy Days — Apr.—74
Federal Aid for Sewage Treatment Plant Construction — Apr.—150
Suburbs Need Public Sewers — Apr.—154
Comprehensive Study Leads to Improvements of Sanitary Sewer System — June—106
Sewage Treatment for a 14-Square Mile Area — July—88
Metropolitan Planning for Sewers on a County Basis — Aug.—83
Basic Requirements for Subdivision Approval — Sept.—97
Sewage Treatment, Sewerage and Water Works Contracts in 1957 — Oct.—172
Storm Sewer Financing — Dec.—168

Sewer Systems—Construction

Manholes Go Modern and Noiseless — Jan.—101
30-Inch Interceptor Built Beneath Allegheny River — Jan.—150
Sewerage for the "Venice of America" — Feb.—98
Sewer Trenching in the Horse-and-Buggy Days — Apr.—74
Suburbs Need Public Sewers — Apr.—154
Comprehensive Study Leads to Improvements of Sanitary Sewer System — June—106
Single Beam Construction Carries Sewer Pipe Across Stream — July—97
Metropolitan Planning for Sewers on a County Basis — Aug.—83
Special Connecting Structures in Sewer Work — Aug.—88
Strength Classifications for Asbestos-Cement Gravity Sewer Pipe — Nov.—100
The Town Superintendent and Subdivision Control — Nov.—108
Minimizing Traffic Interference Caused by Utility Work in Streets — Dec.—86

Sewer Systems—Design

Sewage Flow and Treatment Methods for a Small Community — May—166
Single Beam Construction Carries Sewer Pipe Across Stream — July—97
Special Connecting Structures in Sewer Work — Aug.—88
Strength Classifications for Asbestos-Cement Gravity Sewer Pipe — Nov.—100

Sewer Systems—Maintenance

Manholes Go Modern and Noiseless — Jan.—101
Experiments with Odor Control in Sewers — Apr.—132
Organization and Equipment for Sewer Maintenance — May—107

Sewer Systems—Storm Drainage

Line Storage Reduces Storm Water Pump Sump Size — July—72
A Basis for Storm Sewer Construction Costs — Aug.—74
Unique Design Solves Storm Water Problem — Oct.—182
Storm Sewer Financing — Dec.—168

Sewage Pumping

New Products Reduce Sewer Project Costs — Apr.—99
Hydraulic Testing of Centrifugal Pumps — June—96
Velocity Controlled Sewage Siphons Solve Pumping Problems — June—101
Line Storage Reduces Storm Water Pump Sump Size — July—72
Cost Data on Public Works Activities — Aug.—72
Variable Speed for Sewage Pumps — Sept.—103
Variable Pitch Blades for Sewage Pumps — Oct.—86
Robotry in Water and Sewage Works Operation — Oct.—104
Underground Sewage Pumping Station Solves Difficult Site Problem — Oct.—122
Sewage Pumping Station Involves Unusual Piling Work — Nov.—95

Month and page

Sewage Treatment—Design

Water and Sewerage for a New Residential Development — Jan.—87
Sewage Treatment Plant Is Designed for Easy Operation — Jan.—95
The Accelo Filter System of Sewage and Waste Treatment — Feb.—84
Small Sewage Treatment Plants: Sedimentation — Feb.—113
The Biofiltration System — Apr.—124
How Reliable Are Overflow Rates as Design Criteria for Sedimentation Basins? — July—62
Small Sewage Treatment Plants: Sludge Digestion — July—79
Sewage Treatment with Trickling Filters — Aug.—115
An Introduction to Some Controversial Topics in Water and Sewage Treatment — Sept.—84
Small Sewage Treatment Plants: Trickling Filters — Sept.—118
A Check List for Sewage Treatment Plant Design — Sept.—134
Sludge Thickening — Oct.—82
General Design for High Rate Filters — Oct.—117
Whither Package Plants? — Nov.—50
The Best-Operated Sewage Treatment Plant in Florida — Nov.—136
Sludge Digestion Capacities — Dec.—66

Sewage Treatment—Industrial Wastes

The Accelo Filter System of Sewage and Waste Treatment — Feb.—84
Clay Pipe with PVC Couplings Handles Salt Water Waste in Oil Fields — May—168
Oxidation of Organic Wastes in Soil and Oil Carriage of Sewage — Dec.—101
Oxidation Studies — Dec.—103
Determination of Radioisotopes in Water, Food and Sewage — Dec.—111

Industrial Waste Digests

Jan.—146; Feb.—162; Mar.—164; Apr.—200; May—170; June—168; July—138; Aug.—168; Sept.—186; Oct.—178; Nov.—146; Dec.—154

Sewage Treatment—Operation

Sewage Treatment Plant Is Designed for Easy Operation — Jan.—95
Sewage Plant for Restaurant Treats 12,000 G.P.D. — Mar.—98
The Biofiltration System — Apr.—124
Waste Treatment Plant Serves Highway Restaurant — May—93
Good Records Help Sewage Plant Operation — June—89
Digester Cleaning Reveals Snails by the Ton — July—69
Dewatered Sludge Handled by Conveyor — July—100
An Introduction to Some Controversial Topics in Water and Sewage Treatment — Sept.—84
Robotry in Water and Sewage Works Operation — Oct.—104
Performance of Unhoused Settling Tanks in Extreme Cold Weather — Oct.—192
Whither Package Plants? — Nov.—50
Steam Injection Opens Grease Clogged Sludge Lines — Nov.—96

Sewage Treatment—Construction

Wide-Span "Space Frames" Cover Trickling Filter — Mar.—130
Federal Aid for Sewage Treatment Plant Construction — Apr.—150
Sewage Treatment, Sewerage and Water Works Contracts in 1957 — Oct.—172
Progress and Cost Data in Ohio's Program for Water Pollution Control — Nov.—78

Treatment Methods and Research

Water and Sewerage for a New Residential Development — Jan.—87
Sewage Treatment Plant Is Designed for Easy Operation — Jan.—95
Using Digester Gas Saves Thousands of Dollars for Sewage Treatment Plant — Feb.—62
The Accelo Filter System of Sewage and Waste Treatment — Feb.—84
Pressure Screen for Sewage Effluent Keeps Sprinklers Clean — Mar.—85
Modified Standards Reduce Sewage Treatment Costs — Mar.—86
Sewage Plant for Restaurant Treats 12,000 G.P.D. — Mar.—98
Sewage Sludge Thickening by Mechanical Vibration — Mar.—111
Wide-Span "Space Frames" Cover Trickling Filter — Mar.—130
Sewage Treatment Statistics at Cranston, R. I. — Apr.—78
Sewage Treatment Plant Operation Data, Alexandria Sanitation Authority — May—72
A Study of Sewerage for Metropolitan Denver — May—97
Sewage Flow and Treatment Methods for a Small Community — May—166

Month and page

Waste Stabilization Ponds in South Dakota — June—178
Sewage Treatment for a 14-Square Mile Area — July—88
An Introduction to Some Controversial Topics in Water and Sewage Treatment — Sept.—84
Sludge Thickening — Oct.—82
Performance of Unhoused Settling Tanks in Extreme Cold Weather — Oct.—192
Whither Package Plants — Nov.—50
Steam Injection Opens Grease Clogged Sludge Lines — Nov.—96
The Best-Operated Sewage Treatment Plant in Florida — Nov.—136
The Role of the Federal Government in Supporting Research — Dec.—89
Reaeration of Oxygen-Deficient Natural Streams — Dec.—92
Oxidation of Organic Wastes in Soil and Oil Carriage of Sewage — Dec.—101
Oxidation Studies — Dec.—103
Disinfection of Sewage Sludge with Halogens — Dec.—106
The Role of Algae in Pollution Abatement — Dec.—109
Disposal of Dewatered Fresh Sewage Sludge — Dec.—112
Sewage Siudge Thickening by Flotation — Dec.—114

Sewerage Digests

Jan.—122; Feb.—128; Mar.—144; Apr.—180; May—160; June—150; July—130; Aug.—156; Sept—154; Oct.—142; Nov.—138; Dec.—144

WATER SUPPLY AND PURIFICATION

Finance, Legal and Planning

Cost of Laying Water Pipe in 1956 — Jan.—46
Cost of Repairing and Renovating Meters — Jan.—48
Planning a Water Supply for the Passaic Valley — Feb.—156
Water Main Construction Costs, Ames, Ia., 1957 — Apr.—74
Grand Rapids Modernizes Water Treatment, Pumping and Distribution — May—120
Operating a County Water System — June—78
Mechanized Utility Accounting Produces Simplified, Accurate Results — June—116
The City of Hammond—in Step with Waterworks Progress and Prepared for the Future — July—83
Operator Training—Key to Effective Sewage Treatment — July—144
Basic Requirements for Subdivision Approval — Sept.—97
City-Industry Cooperation Makes Adequate Water Supply Possible — Sept.—100
How a Watershed Program Can Be Developed for a Community — Sept.—123
Designing for Future Water Demands — Sept.—210
Additional Water Supply for the New Haven Area — Oct.—97
Sewage Treatment, Sewerage and Water Works Contracts in 1957 — Oct.—172
Florida Cities Turn to Surface Water — Nov.—98

Pumping

Grand Rapids Modernizes Water Treatment, Pumping and Distribution — May—120
Hydraulic Testing of Centrifugal Pumps — June—96
The "Ten Commandments" of Water Works Design and Operation — Aug.—109
Robotry in Water and Sewage Works Operation — Oct.—104

Reservoirs and Tanks

What a City Can Do to Foretell a Water Shortage — Jan.—81
Reroofing a Water Reservoir — Feb.—64
Town Site at Glen Canyon Dam — Apr.—198
New Reservoir Will Yield 41 MGD — May—95
Engineering Design of Municipal Water Supply Reservoirs — May—184
No More Water Worries for Raleigh — June—120
Applications of the Digital Computer to Reservoir Yield Studies — Aug.—91
How a Watershed Program Can Be Developed for a Community — Sept.—123
Additional Water Supply for the New Haven Area — Oct.—97
Repair of an Earthquake Damaged Reservoir — Oct.—115
Digital Computers and Three Municipal Water Problems — Oct.—196

Supply Lines and Distribution

Water and Sewerage for a New Residential Development — Jan.—87
Main Sterilization Simplified — Jan.—137
New Water Supply Requires 30-Mile Pipe Line — Feb.—82
Water Main Construction Costs, Ames, Ia., 1957 — Apr.—74
Metering to Establish Distance-Demand Water Service Rates — Apr.—100
Grand Rapids Modernizes Water Treatment, Pumping and Distribution — May—120
Cost of Laying Water Pipe in Toledo — June—76
How to Size Services and Meters — July—74
Water Supply Expansion Program Will Provide for Dry Spells — Aug.—103
Additional Water Supply for the New Haven Area — Oct.—97
Sampling Inspection Methods in Quantity Purchases of Water Meters — Nov.—86
The Town Superintendent and Subdivision Control — Nov.—108
Minimizing Traffic Interference Caused by Utility Work in Streets — Dec.—86
Carrying Capacity of Water Mains — Dec.—94
Underground Corrosion — Dec.—160

Treatment Plants—Design and Operation

Water and Sewerage for a New Residential Development — Jan.—87
Colorful Ceramic Murals Depict Water Treatment — Jan.—111
Electrical Supervisory Controls Check Water System — Feb.—109
Designing a Water System for the Future — Mar.—87
The City of Hammond—in Step with Waterworks Progress and Prepared for the Future — July—83
The "Ten Commandments" of Water Works Design and Operation — Aug.—109
An Introduction to Some Controversial Topics in Water and Sewage Treatment — Sept.—84
Robotry in Water and Sewage Works Operation — Oct.—104
Michigan's Largest High-Rate Water Treatment Plant — Oct.—128
Sand and Gravel Handling Equipment for Filter Rehabilitation — Nov.—56
Florida Cities Turn to Surface Water — Nov.—98
Automatic Water Conditioning at Minimum Cost — Nov.—110
The Electron Microscope as an Aid in Water Quality Research and Control — Dec.—96
Identification of Odoriferous Substances Produced by Organisms in Water — Dec.—99

Treatment Methods and Research

City Flusher Solves Lime Sludge Disposal Problem — Jan.—136
The Background of Municipal Water Treatment — Feb.—172
Modern Municipal Water Softening Practices — Mar.—101
What You Should Know About the Membrane Filter — Apr.—106
Grand Rapids Modernizes Water Treatment, Pumping and Distribution — May—120
First Water Desalting Plant Will Save City $40,000 Per Year — July—64
Steep Terrain Prompts Use of Double Deck Sedimentation Basin — July—101
Using Bulk Chemicals in Water Treatment — July—143
How Chlorination Helps Water Conditioning at Alaska Bases — Aug.—119
Data on Municipal Water Works — Aug.—144
An Introduction to Some Controversial Topics in Water and Sewage Treatment — Sept.—84
Status of Controlled Fluoridation in the United States, 1945-57 — Sept.—194
Sand and Gravel Handling Equipment for Filter Rehabilitation — Nov.—56
Florida Cities Turn to Surface Water — Nov.—98
Automatic Water Conditioning at Minimum Cost — Nov.—110
The Role of the Federal Government in Supporting Research — Dec.—89
Carrying Capacity of Water Mains — Dec.—94
The Electron Microscope as an Aid in Water Quality Research and Control — Dec.—96
Identification of Odoriferous Substances Produced by Organisms in Water — Dec.—99
The Effect of Monochloramine and Chromate on Bacterial Organisms — Dec.—105
Resuspension of Solids in Sedimentation Basins — Dec.—108

Water Demand

What a City Can Do to Foretell a Water Shortage — Jan.—81
Investigations on Water Consumption and Water Resources — Jan.—142
Designing a Water System for the Future — Mar.—87
Metering to Establish Distance-Demand Water Service Rates — Apr.—100
What Water Shortage? — July—76
Applications of the Digital Computer to Reservoir Yield Studies — Aug.—91
Water Supply Expansion Program Will Provide for Dry Spells — Aug.—103
The "Ten Commandments" of Water Works Design and Operation — Aug.—109
Designing for Future Water Demands — Sept.—210
Digital Computers and Three Municipal Water Problems — Oct.—196

Water Supply and Sources

What a City Can Do to Foretell a Water Shortage — Jan.—81
Water and Sewerage for a New Residential Development — Jan.—87
Investigations on Water Consumption and Water Resources — Jan.—142
New Water Supply Requires 30-Mile Pipe Line — Feb.—82
Electrical Supervisory Controls Check Water System — Feb.—109
Planning a Water Supply for the Passaic Valley — Feb.—156
Designing a Water System for the Future — Mar.—87
Town Site at Glen Canyon Dam — Apr.—198
Engineering Design of Municipal Water Supply Reservoirs — May—184
No More Water Worries for Raleigh — June—120
What Water Shortage? — July—76
Horizontal Collectors Will Improve Underground Water Yield — Aug.—104
How a Watershed Program Can Be Developed for a Community — Sept.—123
Additional Water Supply for the New Haven Area — Oct.—97
Florida Cities Turn to Surface Water — Nov.—98
Reaeration of Oxygen-Deficient Natural Streams — Dec.—92

Water System and Plant Maintenance

Two-Way Radio Communication Boosts Service 50 Percent — Feb.—111
Sand and Gravel Handling Equipment for Filter Rehabilitation — Nov.—56
Sampling Inspection Methods in Quantity Purchases of Water Meters — Nov.—86
Carrying Capacity of Water Mains — Dec.—94

Water Works Digests

Jan.—138; Feb.—140; Mar.—134; Apr.—190; May—140; June—158; July—114; Aug.—146 Sept.—176; Oct.—166; Nov.—118; Dec.—122

ADMINISTRATION

City-County Control of Subdivision Sewage Disposal — Jan.—102
County Court House Speeds Copy Work — Feb.—77
Sewerage for the "Venice of America" — Feb.—98
Defining a Nuisance for a Model Ordinance — Feb.—146
Requirements for Annexation — Mar.—58
Contractors Must Be Qualified to Perform Municipal Work — Apr.—136
Suburbs Need Public Sewers — Apr.—154
A Study of Sewerage for Metropolitan Denver — May—97
Advances for Public Works Planning — May—148
Operating a County Water System — June—78
Comprehensive Study Leads to Improvements of Sanitary Sewer System — June—106
Winning Public Acceptance of Water Metering — June—109
Every City Should Have an Economy Survey — July—102
Basic Requirements for Subdivision Approval — Sept.—97
City-Industry Cooperation Makes Adequate Water Supply Possible — Sept.—100
County Develops Comprehensive Refuse Disposal Plan — Nov.—90
Fleet Maintenance Records Help City Cut Costs — Nov.—106
The Town Superintendent and Subdivision Control — Nov.—108
Retirement Income for Texas State Employees — Nov.—154
Maintenance of County Roads — Dec.—73
Operation Heave-Ho! — Dec.—76
Functional Office Facilities for an Engineering Firm — Dec.—84
Minimizing Traffic Interference Caused by Utility Work in Streets — Dec.—86

CIVIL DEFENSE

Radiological Decontamination of Pavements and Roofs — Feb.—138
Civil Defense Can Help to Awaken Civic Interest — Feb.—158

MUNICIPAL POWER PLANTS

Municipal Power Plant Profit Reduces Taxes — Apr.—188
Municipal Diesel Plant Extended to Provide Better Service — Aug.—188
Do You Know What You Have in Municipal Power? — Oct.—64
Economic Selection of Power Transformers — Nov.—68
Standby Power for Toll Plazas — Nov.—88
Diesel Power Cuts Pumping Costs — Nov.—144
Centralized Control Rooms — Dec.—162

INSECT AND RODENT CONTROL

Month and page

Equipment for Helicopter Insecticide Dispersal ... Jan.—44
Effect of Earth Cover on Fly Emergence from Sanitary Landfills ... Feb.—91
Insecticide Resistance ... Apr.—206
Control of Rodents and Insects on Dumps: Rodent Control ... July—90
Applications of Insecticides at Dumps ... July—92

PUBLIC HEALTH

Radiological Decontamination of Pavements and Roofs ... Feb—138
Synthetic Detergents from an English Viewpoint ... Sept.—90
Epidemic of Enteritis Blamed on Cross-Connection ... Oct.—150
Two Years of the Federal Water Pollution Control Act ... Oct.—188
Oxidation of Organic Wastes in Soil and Oil Carriage of Sewage ... Dec.—101
The Effect of Monochloramine and Chromate on Bacterial Organisms ... Dec.—105
Determination of Radioisotopes in Water, Food and Sewage ... Dec.—111
Disposal of Dewatered Fresh Sewage Sludge ... Dec.—112

RECREATIONAL FACILITIES

Rubberized Playground Surface Gives Bounce Instead of Bump ... Feb.—110
"Have Fun With Safety" Is Niagara Falls Slogan ... May—127
Disinfection of Public Swimming Pools ... June—85
Municipal Outdoor Swimming Pools ... July—108
It's Fun to Play in Sylacauga, Alabama ... Nov.—80

GENERAL AND MISCELLANEOUS

Colorful Ceramic Murals Depict Water Treatment ... Jan.—111
City Flusher Solves Lime Sludge Disposal Problem ... Jan.—136
Town and Village Consolidation in Vermont ... Jan.—136
County Court House Speeds Copy Work ... Feb.—77
Pumping Plant Provides Last Link in Floodwall at Louisville ... Feb.—80
Timewasters for These Long Winter Evenings ... Feb.—97
Modernized Equation Writing ... Feb.—122
Fire Fighting and Fire Prevention for the Public Works Department ... Feb.—168
County Engineering Practices and Procedures ... Mar.—58
How a City Gets Valuable Ideas from its Employees ... Mar.—108
Women Parking Officers Help Public Relations ... Mar.—121
Fire Protection Without Water Mains ... Mar.—132
Contractors Must Be Qualified to Perform Municipal Work ... Apr.—136
Cost of Maintaining and Operating Public Buildings ... June—74
Fees for Mobile Home Parking ... June—74
Driveways and Approaches for Modern Automobiles ... June—113
Fire Rating Change Saves City $90,000 per Year ... June—118
Development and Maintenance of a Safety Program ... June—124
Parking Requirements for Proposed State Office Buildings ... June—180
Design of Retaining Walls ... July—71
Leasing of Motor Equipment ... July—94
Highway Costs and Their Relationship to Vehicle Size ... Aug.—78
The Market for Tax-Exempt Bonds ... Aug.—86
Maintenance and Operation of Government Buildings ... Aug.—106
Mobile Light and Power for Street Maintenance and Civil Defense ... Aug.—178
Air Conditioning Regulations in Cities ... Sept.—92
Waste Paper Salvage in England ... Sept.—182
Status of Controlled Fluoridation in the United States, 1945-57 ... Sept.—194
Major Flooding Problem Solved Through Joint-Citizen Community Effort ... Sept.—198
Blasting Operations ... Sept.—200
Competitive Bidding for Professional Work Should Not Be Tolerated ... Oct.—95
The Role of the Federal Government in Supporting Research ... Dec.—89

LEADERS IN PUBLIC WORKS

Month and page

F. N. Hveem ... Jan. 1—18
Francis A. Bolton ... Feb. 1—18
Richard V. Ford ... Mar. 1—18
Henry J. Graeser ... Apr. 1—18
Leonard H. Caro ... May 1—18
Desso T. Mitchell ... June 1—18
Robert S. Hopson ... July 1—18
Edward L. Cyr ... Aug. 1—18
Paul R. Screvane ... Sept. 1—18
Emil J. Jensen ... Oct. 1—18
William R. Wooten ... Nov. 1—18
P. H. McGauhey ... Dec. 1—18

AUTHORS

Alexander, Charles.—"Signs for Safety" Dec.—79
Allgeier, E. M., & S. C. Smith.—"Digester Cleaning Reveals Snails by the Ton" ... July—69
Altemus, Daniel F.—"Strength Classifications for Asbestos-Cement Gravity Sewer Pipe" ... Nov.—100
Anaya, Marvin.—"Driveways and Approaches for Modern Automobiles" ... June—113
Anderson, Curtis G. & William F. Hallstead.—"Should I Consider an Electronic Computer?" ... Nov.—102
Arthur, Guy B.—"Can a City Stay Out of the Parking Lot Business" ... Feb.—104
"Designing a Water System for the Future" ... Mar.—87
"Bright Lights for Atlanta" ... Apr.—114
Atkinson, Duffy.—"Curb, Gutter and Sidewalk Repair Program" ... Sept.—106
Baffa, John J.—"Small Sewage Treatment Plants: Sedimentation" ... Feb.—113
"Small Sewage Treatment Plants: Sludge Digestion" ... July—79
"Small Sewage Treatment Plants: Trickling Filters" ... Sept.—118
Baker, R. J. & A. E. Griffin.—"Modernized Equation Writing" ... Feb.—122
Barnes, A. M. & R. J. Black.—"Effect of Earth Cover on Fly Emergence from Sanitary Landfills" ... Feb.—91
Bartelsmeyer, R. R.—"Inspection and Control of Highway Construction" ... Dec.—166
Betts, Charles R.—"Maintenance and Operation of Government Buildings" ... Aug.—106
Billings, Clayton H. & D. B. Dickson.—"Robotry in Water and Sewage Works Operation" ... Oct.—104
Black, R. J. & A. M. Barnes.—"Effect of Earth Cover on Fly Emergence from Sanitary Landfills" ... Feb.—91
Borchardt, J. A.—"The Roll of Algae in Pollution Abatement" ... Dec.—109
Brender, E. G., J. O. Frank & T. A. Weyland.—"Computer Applications for a Small Consulting Firm" ... July—67
Britton, W. S.—"Seal Treatments on Bituminous Concrete Pavements" ... Feb.—95
Brock, Dan A.—"Digital Computers and Three Municipal Water Problems" ... Oct.—196
"Sampling Inspection Methods in Quantity Purchases of Water Meters" ... Nov.—86
Burch, Robert A.—"Pavement Striping Benefits and Practices" ... Jan.—90
Burmeister, W. J.—"Removal, Trimming and Planting of Roadside Trees" ... Oct.—126
Cahill, Richard F.—"Town and Village Consolidation in Vermont" ... Jan.—136
Calhoun, Otis T.—"Repair of an Earthquake Damaged Reservoir" ... Oct.—115
Carlson, J. W.—"Granulated and Air-Cooled Slag for Road Construction" ... Dec.—82
Carreau, Joseph W.—"Refuse Collection in New Bedford" ... Mar.—169
Carrell, J. J.—"Leasing of Motor Equipment" ... July—94
Cheadle, George W.—"Basic Requirements for Subdivision Approval" ... Sept.—97
Christopher, S. H.—"Aerial Photography Is a Low Cost Aid for Tax Equalization" ... Mar.—106
Churchill, M. A.—"Reaeration of Oxygen-Deficient Natural Streams" ... Dec.—92
Coburn, W. W.—"A New Method of Financing Ornamental Street Lighting" ... Mar.—99
"Operation Heave-Ho!" ... Dec.—76
Connell, C. H.—"Disinfection of Sewage Sludge with Halogens" ... Dec.—106
Conrad, Edgar.—"County Gets More Miles from Its Highway Maintenance Dollar" ... July—99
Craig, H. H., Harold Krauser & Joseph Unger.—"Field Sampling of Concrete" ... Jan.—77
Crosman, Ralph.—"Single Beam Construction Carries Sewer Pipe Across Stream" ... July—97
Crosser, C. A.—"Every City Should Have an Economy Survey" ... July—102
Csanyi, Ladis H.—"Design of Asphalt Paving Mixtures" ... Jan.—93
Curran, Harold & Levi Price.—"Experiments with Odor Control in Sewers" ... Apr.—132
Dames, Trent R.—"Soils Studies Prior to Bridge Construction" ... May—117
Davis, Glenn N. & E. E. Ross.—"Steam Injection Opens Grease Clogged Sludge Lines" ... Nov.—96
DeNoble, H. M.—"Pavement Markings Improve Traffic Flow" ... July—78
Deurer, R. H.—"Variable Speed for Sewage Pumps" ... Sept.—103
Dickerson, Earl.—"Maintenance of County Roads" ... Dec.—73
Dickson, D. B. & Clayton H. Billings.—"Robotry in Water and Sewage Works Operation" ... Oct.—104
Duchaine, William J.—"Have Fun with Safety Is Niagara Falls Slogan" ... May—127
"It's Fun to Play in Sylacauga, Alabama" ... Nov.—80
Duff, James C.—"Stabilization of Sand with Asphaltic Materials ... Sept.—125
Dunbar, A. Anne & J. J. Weinstein.—"City-County Control of Subdivision Sewage Disposal" ... Jan.—102
Ebright, LeRoy.—"Diesel Power Cuts Pumping Costs" ... Nov.—144
Eckenfelder, W. Wesley, Jr. & Guenter Spohr.—"Sewage Sludge Thickening by Mechanical Vibration" ... Mar.—111
Ehrich, Glen G.—"Sewage Treatment Plant Is Designed for Easy Operation" ... Jan.—95
Elmore, George R. & Joseph C. Yarbrough.—"A Check List for Sewage Treatment Plant Design" ... Sept.—134
Ennis, Bruce J.—"Do You Know What You Have in Municipal Power" ... Oct.—64
"Economic Selection of Power Transformers" ... Nov.—68
"Centralized Control Rooms" ... Dec.—162
Fagerlind, C. C.—"We Reduce Cost and Improve Refuse Collection with Larger Bodies" ... Mar.—118
Federhart, J. W.—"Our Downtown Parking Garage Handled 142,313 Cars in Nine Months" ... Sept.—110
Fellows, George H.—"City Establishes Five-Year Street Maintenance Program" ... Nov.—75
Fitzwater, William D.—"Control of Rodents and Insects on Dumps: Rodent Control" ... July—90
Fletcher, Robert J.—"Special Connecting Structures in Sewer Work" ... Aug.—88
Folland, R. O.—"Line Storage Reduces Storm Water Pump Sump Size" ... July—72
Folwell, A. Prescott.—"Sewer Trenching in the Horse-and-Buggy Days" ... Apr.—74
Ford, T. S. & Frank J. O'Donnell.—"Organization and Equipment for Sewer Maintenance" ... May—107
Foster, John W.—"A Way to See Into the Earth" ... Apr.—121
Frank, J. O., E. G. Brender & T. A. Weyland.—"Computer Applications for a Small Consulting Firm" ... July—67
Freeman, Ben & Floyd M. Miller.—"Epidemic of Enteritis Blamed on Cross-Connection" ... Oct.—150
Fulkman, J. A.—"The Ten Commandments of Water Works Design and Operation" ... Aug.—109
Furbeck, R. J.—"Evaluation of Urban Intersection Design" ... Feb.—100
Gallagher, D. L.—"The City of Hammond—in Step with Waterworks Progress and Prepared for the Future" ... July—83
Garmhausen, Wilbur J.—"Plantings for Highway Roadsides" ... June—119
Geer, I. Ray.—"Gravel Stabilization with Tar" ... May—174
Gent, A. H.—"Designing for Future Water Demands" ... Sept.—210
Gerber, R. A.—"Sewage Flow and Treatment Methods for a Small Community" ... May—166
Gillard, H. W.—"The Accelo Filter System of Sewage and Waste Treatment" ... Feb.—84
Glynn, Thomas F.—"The Town Superintendent and Subdivision Control" ... Nov.—108
Gooch, Robert S.—"Applications of the Digital Computer to Reservoir Yield Studies" ... Aug.—91
Greer, David M.—"Foundation Explorations, Drilling and Sampling" ... May—112
Gregory, R. T.—"Signal System Designed for Downtown Traffic" ... Feb.—78
Griffin, A. E. & R. J. Baker.—"Modernized Equation Writing" ... Feb.—122
Hahn, Richard B. & Conrad P. Straub.—"Determination of Radioisotopes in Water, Food and Sewage" ... Dec.—111
Hallstead, William F. & Curtis G. Anderson.—"Should I Consider an Electronic Computer?" ... Nov.—102
Hardy, Fred E.—"Unique Design Solves Storm Water Problem" ... Oct.—182
Harvill, C. R. & D. B. Ward.—"Using Bulk Chemicals in Water Treatment" ... July—143
Hatcher, Melvin P.—"Metering to Establish Distance-Demand Water Service Rates" ... Apr.—100
Hathaway, Homer.—"Something Had to Be Done About Street Lighting" ... May—99
"City-Industry Cooperation Makes Adequate Water Supply Possible" ... Sept.—100
Hazeltine, John C.—"Advances for Public Works Planning" ... May—148
Henderson, Clayton.—"Highway Equipment Cost Accounting Can Be Easy" ... Oct.—121

Month and page

Hinebrook, Vernon L. & John L. Scheid.—
"Michigan's Largest High-Rate Water Treatment Plant" Oct.—128
Hinkamp, Grant M.—"Comprehensive Study Leads to Improvements of Sanitary Sewer System" June—106
Hirsch, Phil.—
"How a City Gets Valuable Ideas from Its Employees" Mar.—108
"Two-Way Radio Saves Time and Money for the Public Works Department" May—105
"Unique Washer Cuts Tunnel Maintenance Costs" June—104
"Fleet Maintenance Records Help City Cut Costs" Nov.—106
Hoefle, Karl F.—"What a City Can Do to Foretell a Water Shortage" Jan.—81
Holtz, W. G.—"Soil Investigations for Earth Dam Design and Construction" May—118
Huston, Milton.—"Portable Asphalt Plant Speeds Street Patching" Sept.—214
Hveem, F. N.—"Designing Bases for Roads and Streets" Jan.—97
Ingersoll, A. C. & R. T. McLaughlin.—
"Resuspension of Solids in Sedimentation Basins" Dec.—108
Ingols, Robert S.—"The Effect of Monochloramine and Chromate on Bacterial Organisms" Dec.—105
Jahlstrom, I. O.—"Experience Gained on 65 Prestressed Concrete Bridges" Mar.—94
Jenson, Theodore B.—"New Water Supply Requires 30-Mile Pipe Line" Feb.—82
Johnson, Russell L.—"Good Records Help Sewage Plant Operation" June—89
Kalda, Don C.—"Waste Stabilization Ponds in South Dakota" June—178
Katz, William J.—"Sewage Sludge Thickening by Flotation" Dec.—114
Kelley, Arnold A.—"Low Cost Street Construction with Lime Stabilization" Oct.—113
Kennedy, D. J.—"Municipal Outdoor Swimming Pools" July—108
Kountz, R. Rupert & John B. Nesbitt.—
"Oxidation Studies" Dec.—103
Krauser, Harold, H. H. Craig & Joseph Unger.—"Field Sampling of Concrete" Jan.—77
Kuehne, O. W. & R. L. Smith.—
"Performance of Unhoused Settling Tanks in Extreme Cold Weather" Oct.—192
Kuiper, L. R.—"Contractors Must Be Qualified to Perform Municipal Work" Apr.—136
LaBrecque, G. C.—"Applications of Insecticides at Dumps" July—92
Lambe, T. William.—"What's New in Soils Stabilization" May—177
Larson, T. E.—"Carrying Capacity of Water Mains" Dec.—94
Laubusch, Edmund J.—
"What You Should Know About the Membrane Filter" Apr.—106
"Disinfection of Public Swimming Pools" June—85
Lewis, Taylor D.—"Soil Tests and Highway Location Design and Construction" May—115
Lingel, Edward W.—"How Chlorination Helps Water Conditioning at Alaska Bases" Aug.—119
Lloyd, Gordon H.—"Retirement Income for Texas State Employees" Nov.—154
Logan, J. A.—"Oxidation of Organic Wastes in Soil and Oil Carriage of Sewage" Dec.—101
Lueder, D. R.—"Application of Aerial Photographic Interpretation to Engineering Soils Studies" May—179
Maier, P. P., E. R. Williams & G. F. Mallison.—"Light Equipment for Small Town Sanitary Landfill" Feb.—89
Mallette, John B.—"The Problems of Small Bridge Design" Apr.—117
Mallison, G. F., E. R. Williams & P. P. Maier.—"Light Equipment for Small Town Sanitary Landfill" Feb.—89
Maloney, Thomas E. & Antonio H. Romano.—
"Identification of Odoriferous Substances Produced by Organisms in Water" Dec.—99
Mann, Mel.—"Hydraulic Testing of Centrifugal Pumps" June—96
Mannix, John F.—"Engineering Man-Hours Saved with Electronic Computers" Jan.—108
Mashaw, Lane H.—"Safety Lighting Installed at Grade Separation and Interchange" Nov.—85
May, Adolph D.—"Solving Our Parking Problems" May—100
McKee, Charles R.—"New Products Reduce Sewer Project Costs" Apr.—99
McLaughlin, R. T. & A. C. Ingersoll.—
"Resuspension of Solids in Sedimentation Basins" Dec.—108
McMillion, A. L.—"The Use of Asphalt Emulsion for Stabilization" Jan.—84
Meeker, H. J.—"Pumping Plant Provides Last Link in Floodwall at Louisville" Feb.—80
Meisner, J. F.—"The Expanded Highway Program—A County Point of View" Dec.—142
Miller, Floyd M. & Ben Freeman.—
"Epidemic of Enteritis Blamed on Cross-Connection" Oct.—150
Mitchell, Robert D. & Ernest W. Whitlock.—
"Additional Water Supply for the New Haven Area" Oct.—97
Morris, M. D.—
"Don't Ignore Soils Studies" May—112
"Equipment for Soils Studies" May—115
Murphy, William G.—"Competitive Bidding For Professional Work Should Not Be Tolerated" Oct.—95

Month and page

Murray, Dan J.—"Street Sweeping Operations on County Roads" Sept.—109
Neeper, Guy E.—"The County Surveyor: Then and Now" Mar.—90
Neilson, R. W.—"Refuse Collection Operations in Winston-Salem" June—148
Nesbitt, John B. & R. Rupert Kountz.—
"Oxidation Studies" Dec.—103
Neste, Norman A. & Dale Wilson.—
"Pressure Screen for Sewage Effluent Keeps Sprinklers Clean" Mar.—85
Newcomer, L. W.—"Turnpikes Are Expected to Be Snow Free" Aug.—100
Nordby, Gene M.—"The Role of the Federal Government in Supporting Research" Dec.—89
Nordel, Eskel.—"Modern Municipal Water Softening Practices" Mar.—101
O'Donnel, Frank J. & T. S. Ford.—
"Organization and Equipment for Sewer Maintenance" May—107
Olko, Henry A. & Stephen M. Olko.—
"Soils Studies for the Design and Construction of Buildings" May—119
Olko, Stephen M. & Henry A. Olko.—
"Soils Studies for the Design and Construction of Buildings" May—119
Paris, Ben R.—
"Mobile Light and Power for Street Maintenance and Civil Defense" Aug.—178
Parker, J. R.—"Functional Office Facilities for an Engineering Firm" Dec.—84
Patterson, Harry R.—"Making Columbus Garbage Free" Feb.—107
Patton, Earl.—"Sewage Pumping Station Involves Unusual Piling Work" Nov.—95
Perkins, Ralph.—"Major Flooding Problem Solved Through Joint-Citizen Community Effort" Sept.—198
Porges, Ralph.—"The Background of Municipal Water Treatment" Feb.—172
Porter, O. J.—"California Bearing Ratio Test" May—116
Price, Levi & Harold Curran.—"Experiments with Odor Control in Sewers" Apr.—132
Proudley, C. E.—"Field Inspection of Concrete" June—92
Quinn, Maloy.—"Testing a Bearing Pile" May—110
Rader, M. E.—"Air Placed Concrete Trims Curb Repair Costs" May—136
Radzikowski, H. A.—"What's New in Machinery and Construction Methods for Bituminous Resurfacing" June—134
Radzikowski, H. A. & S. E. Ridge.—"New Developments in Photogrammetry" Oct.—194
Rankin, R. S.—
"The Biofiltration System" Apr.—124
"An Introduction to Some Controversial Topics in Water and Sewage Treatment" Sept.—84
"Sludge Thickening" Oct.—82
"Whither Package Plants" Nov.—50
"Sludge Digestion Capacities" Dec.—66
Ransom, E. B.—"Progress and Cost Data in Ohio's Program for Water Pollution Control" Nov.—78
Reppel, J. W.—"Shoulder Maintenance Practices" Oct.—102
Riddick, Thomas A.—"Velocity Controlled Sewage Siphons Solve Pumping Problems" June—101
Riddle, R. B.—
"Municipal Parking Financed by Special Assessment District" Apr.—135
"Design of Retaining Walls" July—71
Ridge, S. E. & H. A. Radzikowski.—"New Developments in Photogrammetry" Oct.—194
Robinson, Roy R.—
"Sanitation Service Costs" Apr.—103
"What Water Shortage?" July—76
Romano, Antonio H. & Thomas E. Maloney.—
"Identification of Odoriferous Substances Produced by Organisms in Water" Dec.—99
Rosebraugh, V. H.—"Engineering Design of Municipal Water Supply Reservoirs" May—184
Ross, E. E. & Glenn N. Davis.—"Steam Injection Opens Grease Clogged Sludge Lines" Nov.—96
Rudolph, Walter.—"Two-Way Radio Communication Boosts Service 50 Percent" Feb.—111
Rusch, Clifford.—"Winning Public Acceptance of Water Metering" June—109
Rutledge, Philip C.—"The Role of Soils Testing" May—113
Scarce, Lee & James C. Vaughn.—"The Electron Microscope as an Aid in Water Quality Research and Control" Dec.—96
Scheid, John L. & Vernon L. Hinebrook.—
"Michigan's Largest High-Rate Water Treatment Plant" Oct.—128
Schewe, E. A.—"Grand Rapids Modernizes Water Treatment, Pumping and Distribution" May—120
Schmidt, O. John.—"A Study of Sewerage for Metropolitan Denver" May—97
Schroeder, Marvin H.—"Electrical Supervisory Controls Check Water System" Feb.—109
Scrivener, Frank P.—"Winter Maintenance on Maryland Highways" Aug.—93
Seidel, Harris F.—"Operator Training—Key to Effective Sewage Treatment" July—144
Severson, Harry L.—"The Market for Tax-Exempt Bonds" Aug.—86
Sheeter, George A.—"Automatic Water Conditioning at Minimum Cost" Nov.—110
Shoaf, Ross T.—"San Francisco Puts Personality Into Traffic Signals" Sept.—129

Month and page

Singstad, Ole—"In Planning for Tunnels, Use Soils Studies" May—118
Smith, B. G.—"Fire Rating Change Saves City $90,000 per Year" June—118
Smith, R. L. & O. W. Kuehne.—
"Performance of Unhoused Settling Tanks in Extreme Cold Weather" Oct.—192
Smith, S. C. & E. M. Allgeier.—
"Digester Cleaning Reveals Snails by the Ton" July—69
Snyder, Van R.—"Sealing Bituminous Concrete Pavements" July—86
Sommers, William A.—"Salt-Soil Stabilization on Township Roads" Oct.—130
Sparks, G. H.—"Water Supply Expansion Program Will Provide for Dry Spells" Aug.—103
Spence, G. A. & W. W. Wildeman.
"Street Lighting Modernization" Dec.—80
Spencer, C. C.—"Metropolitan Planning for Sewers on a County Basis" Aug.—83
Spohr, Guenter & W. Wesley Eckenfelder, Jr.—
"Sewage Sludge Thickening by Mechanical Vibration" Mar.—111
Stafseth, Henrik E.—"Liquid Chemicals for Dust and Ice Control" May—91
Stenman, Alex.—"Considerations in the Purchase of Street Sweepers by Cities" Sept.—127
Sternitzke, R. F.—"Municipal Incinerator Trends" Sept.—112
Straub, Conrad P. & Richard B. Hahn.—
"Determination of Radioisotopes in Water, Food and Sewage" Dec.—111
Sweetser, Harlan H.—"Establishing Boundaries of Roads Centuries Old" Feb.—87
Swineford, Fred.—"How Cities Cut Curb Costs" Nov.—105
Talcott, E. Burdett.—"Mechanized Utility Accounting Produces Simplified, Accurate Results" June—116
Taylor, D. R.—"How to Size Services and Meters" July—74
Taylor, W. W.—"Manholes Go Modern and Noiseless" Jan.—101
Tews, Arthur W.—"Machine Placement of Durable Asphaltic Concrete Curbs" Apr.—104
Tims, W. C.—"Dewatered Sludge Handled by Conveyor" July—100
Townsend, Donald O.—"Records Assist Parking Meter Maintenance" Oct.—124
Trubnick, Eugene H.—"Disposal of Dewatered Fresh Sewage Sludge" Dec.—112
Unger, Joseph, H. H. Craig & Harold Krauser.—"Field Sampling of Concrete" Jan.—77
Vaseen, V. A.—"Sewage Treatment for a 14-Square Mile Area" July—88
Vaughn, James C. & Lee Scarce.—"The Electron Microscope as an Aid in Water Quality Research and Control" Dec.—96
Victoria, Vesta.—"Vacuum Street Cleaner Does Speedy Job" June—115
Wageck, Don.—"Expressway Completion to Bring Economic Growth" Feb.—75
Wagner, Lawrence F.—"Soil Erosion Problems in a Coastal County" Nov.—93
Waldenberger, L. J.—"County Road Stabilization with Calcium Chloride" Mar.—120
Wallace, J. R., Jr.—"Horizontal Collectors Will Improve Underground Water Yield" Aug.—104
Walter, C. Richard.—"Underground Sewage Pumping Station Solves Difficult Site Problem" Oct.—122
Ward, D. B. & C. R. Harvill.—"Using Bulk Chemicals in Water Treatment" July—143
Watson, Joseph W.—"New Incinerator Designed to Reduce Fly Ash Emission"—Apr.—97
Weinstein, J. J. & A. Anne Dunbar.—
"City-County Control of Subdivision Sewage Disposal" Jan.—102
Welch, J. D.—"Engineering in Construction Control" May—114
Welsch, W. Fred.—"Investigations on Water Consumption and Water Resources" Jan.—142
West, Bradford.—"Plastic Panels Protect Street Lights" Feb.—112
West, Donald B.—"Getting Ready for Winter Weather" Aug.—96
Weyland, T. A., E. G. Brender & J. O. Frank.—
"Computer Applications for a Small Consulting Firm" July—67
Wheeler, Girard.—"Soils Studies for Piles" May—117
Whitlock, Ernest W. & Robert D. Mitchell.—
"Additional Water Supply for the New Haven Area" Oct.—97
Wildeman, W. W. & G. A. Spence.—
"Street Lighting Modernization" Dec.—80
Williams, E. R., G. F. Mallison & P. P. Maier.—"Light Equipment for Small Town Sanitary Landfill" Feb.—89
Wilson, Dale & Norman A. Neste.—
"Pressure Screen for Sewage Effluent Keeps Sprinklers Clean" Mar.—85
Wright, C. E.—
"Water and Sewerage for a New Residential Development" Jan.—87
"Sewerage for the Venice of America" Feb.—98
"Florida Cities Turn to Surface Water" Nov.—98
Yarbrough, Joseph C. & George R. Elmore.—
"A Check List for Sewage Treatment Plant Design" Sept.—134